COSTA-MACHADO WATER ACT
(Proposition 13)
WATERSHED PROTECTION PROGRAM
SFY 2001 Grant Applications

Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
East Valley Resource Conservation District (Santa Ana Watershed Association of RCD's)	Santa Ana Watershed Restoration/Invasive Plant Eradication Project	298	Santa Ana River Watershed	Watershed-wide water quality and quantity issues, loss of native vegetation/habitat for endangered species due to take over of invasive plant species.	92
California Coast Keeper	GIS Watershed Data Management Project	349	Santa Ana River Watershed, Anaheim Bay, Huntington Harbour, Newport Bay (multi-region)	(1) There currently exists no effective process to summarize and provide regulatory agencies with the citizen monitoring data that is collected by community organizations within the targeted watersheds. The data that is received by regulatory agencies typically lacks a consistent format, is incomplete and sporadic in nature. Gaps in monitoring data are common, reducing the overall usefulness of the data in the development of watershed management plans and regional water quality control plans. (2) Most existing citizen monitoring data identifies the symptoms of the water quality problem by measuring pollutant loads and tracking their fluctuations over time. Rarely are causal environmental factors in the watershed identified to determine the root source of these pollutants. Instead, most of the pollution of coastal waters and riparian ecosystems is generally attributed to urban run-off. Yet, without more specific identification of the sources, the attainment of watershed improvements will be hindered.	92
County of Orange, Public Facilities & Resources Dept.	Serrano Creek Stabilization	273	Serrano Creek/Newport Bay-San Diego Creek Watershed	The project would stabilize Serrano Creek where erosion of up to 25' of depth has occurred over the past decade. During the 1997 – 1998 winter, an estimated 400,000 cubic yards of sediment eroded from the creek banks, washing into the Upper Newport Bay. The project also addresses: the loss of important native vegetation, which has adversely affected the native animal population, poor water quality due to increased volume of urban water run-off, decreased vegetative cover causing higher creek water temperatures and exacerbating algae growth; and eroding banks where the rapidly incising creek has undercut levees and threaten adjacent homes.	90

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
County of Orange, Public Facilities & Resources Dept.	Coyote Creek Watershed Management Plan	337	Coyote Creek, San Gabriel	The Coyote Creek Watershed suffers from: poor water quality; lost aquatic species; lost and degraded wetland /in-stream/terrestrial/riparian habitats; channel degradation and erosion; poor floodplain moisture; infestation of invasive species; flood damage; and devalued recreation experience.	89
Orange County Water District (OCWD)	Prado Wetlands and Mill Creek Duck Ponds	20	Santa Ana Watershed	Waste discharges contribute a substantial nitrate loading to Mill Creek and Santa Ana River, leading to deterioration of water quality. Mill Creek flows through the agriculture dairy preserve behind Prado Dam and is polluted by run-off from dairies. Degraded groundwater in Chino Basin contains nitrate levels as high as 60 to 70 mg/L. Chino groundwater near the dairies rises up and enters the Santa Ana River. Since the Santa Ana River is used as the principal water for replenishment of OCWD groundwater basin and the recharged groundwater is utilized as the the primary drinking water supply by OCWD and other member agencies, nitrate reduction is imperative to comply with State and Federal regulations and protect public health and downstream water supply.	86
County of Orange, Public Facilities & Resources Dept.	Erosion and Sediment Control Enhancement Program for the Newport Bay Watershed	376	Newport Bay/San Diego Creek Watershed	The program will reduce the sediment loading to San Diego Creek and Newport Bay from construction activities, resulting in protection of the habitat and navigation uses of the Bay and sediment load reductions required by the sediment TMDL. It will also, as a consequence, reduce nutrients (especially phosphorus) which are bound to sediment and contribute to load reductions required by the nutrient TMDL.	86
County of Orange, Public Facilities & Resources Dept.	Urban Nutrient Source Identification and Best Management Practices Evaluation for the Newport Bay Watershed	380	Newport Bay/San Diego Creek Watershed	The project will assess urban nutrient sources in the Newport Bay watershed that are contributing to excess algae growth and oxygen depletion in the Bay and evaluate Best Management Practices (BMPs) that can be implemented to reduce urban nutrient loads as required by the adopted nutrient TMDL.	86
County of Orange, Public Facilities & Resources Dept.	Reconstruction of Sediment Basin and Weir in Lower San Diego Creek	14	Newport Bay/San Diego Creek Watershed	The project would correct current deficiencies in the trapping efficiency of the sediment basins in the lower San Diego Creek during larger magnitude storm events resulting in protection of the habitat and navigation uses of Newport Bay and load reductions required by the sediment TMDL. It will also, as a consequence, reduce nutrients (especially phosphorus) which are bound to sediment and contribute to load reductions required by the nutrient TMDL.	85

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
City of Yucaipa	Wilson and Potato Creek Facility	297	Wilson Creek and Potato Creek	Flood control, groundwater depletion, watershed management, and nonpoint source pollution.	85
Lake Elsinore/ San Jacinto Watershed Authority	San Jacinto Watershed Management Plan	99	Lake Elsinore, Canyon Lake, San Jacinto River Watershed	Lake Elsinore and Canyon Lake have been identified by the Santa Ana Regional Water Quality Control Board on their Clean Water Act Section 303(d) list as impaired waterbodies with excessive levels of nutrients in both lakes and low DO in Lake Elsinore. The high nutrients from the San Jacinto watershed coming into these two lakes cause excessive algae growth, and significant drops in DO levels in Lake Elsinore resulting in massive fish kills creating a public nuisance.	83
1) Irvine Ranch Water District 2) County of Orange, Public Facilities and Resources Dept.	Identification of Mitigation Measures for Nitrogen Impacts Relating to Groundwater Seepage and Evaluation of Selenium Distribution in the Newport Bay Watershed	76	Irvine Sub-Basin/San Diego Creek- Newport Bay Watershed	Nutrient impairment in the San Diego Creek/Newport Bay Watershed, which cause blooms of algae and oxygen depletion in Newport Bay.	82
San Timoteo Watershed Authority	San Timoteo Watershed Management Program, Task 4.2.1 Urban Stormwater Management Element	152	San Timoteo Creek Watershed	The San Timoteo Watershed is experiencing significant pressure to convert undeveloped and agriculture land uses to urban uses. The anticipated changes in water quality that are expected to occur include increases in minerals, nutrients, heavy metals, organics, pathogens, and sediment. The changes in discharge regime and associated water quality will negatively impact current and future beneficial uses within the San Timoteo Creek Watershed, and will contribute to non attainment of beneficial uses of surface waters and groundwater in downstream water bodies of the Santa Ana River.	82
Environment Now, a nonprofit foundation	Regional Wetlands and Watershed Management Plan for Coastal Southern California	153	Multi-regional	1) Need to coordinate watershed planning on a regional basis to establish planning and project priorities across watersheds; and, 2) need to develop a more comprehensive list of watershed projects that the Wetlands Recovery Project can fund and promote, and the WRP Task Forces can support through their small grants program.	82

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
Big Bear Municipal Water District (BBMWD)	Big Bear Lake Watershed Restoration Plan	58	Big Bear Lake/tributaries	Big Bear Lake, and several major tributaries to the Lake, are presently included on EPA's 303 (d) list of impaired water bodies. High nutrient concentrations (primarily phosphorus) impairs the beneficial uses for aquatic life by reducing dissolved oxygen and impairs the beneficial uses for recreation by promoting the growth of noxious weeds.	81
City of Hemet/City of San Jacinto	Hemet-San Jacinto Groundwater Basin Assessment	358	San Jacinto watershed	The Hemet and San Jacinto basins are experiencing an overdraft condition, resulting in a drop in the groundwater table, which is impacting both water supply and water quality. This project will analyze the state of the groundwater basins, which will ultimately lead to the establishment of a management plan to correct the overdraft condition.	81
County of Orange, Public Facilities & Resources Dept.	Huntington Coast Watershed Study	351	Huntington Coast Watershed	Two waterbodies in this area have been identified as impaired: Anaheim Bay (metals, pesticides) and Huntington Harbour (metals, pathogens, pesticides). TMDLs are scheduled to begin in 2008.	67
Elsinore Testing of Experimental Aircraft Mechanisms, Inc.	Cleveland Ridge Skypark	10	San Jacinto/Santa Ana	Control flooding, reduce water velocity, restore habitats for terrestrial species, monitor water quality, prevent soil erosion, support beneficial ground water recharge.	41

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
County of Orange, Public Facilities & Resources Dept.	Reconstruction of Sediment Basin and Weir in Lower San Diego Creek	15	Newport Bay/San Diego Creek Watershed	The project would correct current deficiencies in the trapping efficiency of the sediment basins in the lower San Diego Creek during larger magnitude storm events, resulting in protection of the habitat and navigation uses of Newport Bay and load reductions required by the sediment TMDL. It will also, as a consequence, reduce nutrients (especially phosphorus) which are bound to sediment, contributing to load reductions required by the nutrient TMDL.	88
County of Orange, Public Facilities & Resources Dept.	Urban Nutrient Source Identification and Best Management Practices Evaluation for the Newport Bay Watershed	378	Newport Bay/San Diego Creek Watershed	The project will assess urban nutrient sources in the Newport Bay watershed that are contributing to excess algae growth and oxygen depletion in the Bay and evaluate Best Management Practices (BMPs) that can be implemented to reduce urban nutrient loads as required by the adopted nutrient TMDL.	88
City of Newport Beach	Little Corona/Buck Gully/Badham Marine Reserve Water Improvement	346	Buck Gully Watershed/Little Corona Beach/Robert Badham	Urban runoff impacting an ASBS and recreational swimming area.	87
1) Irvine Ranch Water District 2) County of Orange, Public Facilities and Resources Dept.	Identification of Mitigation Measures for Nitrogen Impacts Relating to Groundwater Seepage and Evaluation of Selenium Distribution in the Newport Bay Watershed	17	Irvine Sub-Basin/San Diego Creek-Newport Bay Watershed	Nutrient impairment in the San Diego Creek/Newport Bay watershed, which cause blooms of algae and oxygen depletion in Newport Bay.	85

Coastal Nonpoint Source Pollution Control Program; SFY 2001 Grant Applications
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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
County of Orange, Public Facilities & Resources Dept.	Erosion and Sediment Control Enhancement Program for the Newport Bay Watershed	373	Newport Bay/San Diego Creek Watershed	The program will reduce the sediment loading to San Diego Creek and Newport Bay from construction activities, resulting in protection of the habitat and navigation uses of the Bay and sediment load reductions required by the sediment TMDL. It will also, as a consequence, reduce nutrients (especially phosphorus) which are bound to sediment and contribute to load reductions required by the nutrient TMDL.	83
Southern California Coastal Water Research Project (SCCWRP)	Implementation and Evaluation of BMPs for Improving Coastal Water Quality	291	Santa Ana, Newport Bay (multi-region)	A variety of factors are responsible for impaired water quality in the urban watersheds, including toxic effects due to increased sediment load, pesticides, and metals. State and local regulatory agencies, and municipalities, need information about the effectiveness of the BMPs associated with various management measures in order to select actions that will be effective for improving water quality.	81
City of Huntington Beach	Runoff Treatment Project at Bolsa Chica Wetlands	65	Bolsa Chica Wetlands/Santa Ana Watershed	Trash, debris, and other pollutants associated with urban runoff being discharged from existing storm drains into the proposed Bolsa Chica Wetlands.	69
City of Seal Beach	Run-off Treatment Westside Pump Station at 1st Street	181	San Gabriel	Debris and other pollutants associated with urban run-off.	69
City of Colton	Protection of Coastal Waters: Improvements to the Water Quality of the Santa Ana Watershed Through the Completion of the 3-5 Storm Drain Facility	141	Coastal Huntington Beach and Santa Ana	A study conducted in 1973 identified the need to remove storm water from the streets to prevent flooding, in addition to preventing the degradation of water quality. The less storm water that comes in direct contact with suspended sediments, petroleum hydrocarbons, pesticides, fertilizers, and debris, the better the water quality being discharged into the Santa Ana River and ultimately the Coastal Waters (Huntington Beach).	65
City of Seal Beach	Run-off Treatment Eastside Pump Station at Electric Avenue	180	Huntington Harbour (Anaheim Bay)/Seal Beach Watershed	Debris and other pollutants associated with urban runoff.	65

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
City of Colton	Protection of Coastal Waters: Improvements to the Water Quality of the Santa Ana Watershed Through Replacement of Existing Sewer Mains	133	Coastal Huntington Beach and Santa Ana	The City of Colton has many sewer mains that have exceeded life expectancy, and has been actively replacing these mains. The longer the wait to replace the sewer mains, the more potential for groundwater contamination resulting from the possibility of the old sewer mains leaking into the Santa Ana River Basin, whose point of discharge is Huntington Beach.	63
City of Seal Beach	Run-off Treatment Eastside Pump Station at Seal Beach Blvd.	179	Hunting Harbour (Anaheim Bay)/Seal Beach Watershed	Debris and other pollutants associated with urban run-off.	61
City of Huntington Beach	Huntington Harbour Sewer Lining	64	Huntington Harbour and Bolsa Chica Wetlands/Santa Ana Watershed	Aged sewer mains and manholes susceptible to exfiltration.	58
City of Seal Beach	Run-off Treatment Marina Drive Storm Drain Project	183	San Gabriel	Street flooding and debris and other pollutants associated with urban runoff.	54
City of Huntington Beach	Reconstruction of Sewer Lift Sta. “D” at Huntington Harbour	62	Huntington Harbour, Warner Pond, Bolsa Chica Wetlands/Santa Ana Watershed	Replace aged sewer lift station susceptible to sewer spill.	48
City of Colton	Protection of Coastal Waters: Improvements to the Water Quality of the Santa Ana Watershed Through Elimination of Septic and Leach Systems in Reche Canyon	140	Coastal Huntington Beach and Santa Ana	The RWQCB has determined that septic/leach systems’ effluent discharge is contaminating the groundwater table flowing directly into the Santa Ana River, whose point of discharge is Huntington Beach.	36

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
City of Colton	Protection of Coastal Waters: Improvements to the Water Quality of the Santa Ana Watershed Through Elimination of Septic and Leach Systems in West La Loma Hills	142	Coastal Huntington Beach and Santa Ana	The RWQCB has determined that septic/leach systems' effluent discharge is contaminating the groundwater table flowing directly into the Santa Ana River, whose point of discharge is Huntington Beach.	36

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
Orange County Water District (OCWD)	Dairy Wastewater Treatment Wetlands Project	237	Santa Ana Watershed, Chino groundwater basin	Facility wastewater and runoff from confined animal facilities (dairies); agriculture nonpoint source pollution; nutrient loading of surface and groundwater.	94
1) Irvine Ranch Water District 2) County of Orange, Public Facilities and Resources Dept.	Identification of Mitigation Measures for Nitrogen Impacts Relating to Groundwater Seepage and Evaluation of Selenium Distribution in the Newport Bay Watershed	31	Irvine Sub-Basin/San Diego Creek-Newport Bay Watershed	Nutrient impairment in the San Diego Creek/Newport Bay Watershed, causing blooms of algae and oxygen depletion in Newport Bay.	92
County of Orange, Public Facilities and Resources Dept.	Serrano Creek Stabilization	290	Serrano Creek/Newport Bay-San Diego Creek Watershed	The project would stabilize Serrano Creek where erosion of up to 25' of depth has occurred over the past decade. During the 1997 – 1998 winter, an estimated 400,000 cubic yards of sediment eroded from the creek banks, washing into the Upper Newport Bay. The project also addresses: the loss of important native vegetation, which has adversely affected the native animal population, poor water quality due to increased volume of urban water run-off, decreased vegetative cover causing higher creek water temperatures and exacerbating algae growth; and eroding banks where the rapidly incising creek has undercut levees and threaten adjacent homes.	91

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
County of Orange, Public Facilities and Resources Dept.	Reconstruction of Sediment Basin and Weir in Lower San Diego Creek	16	Newport Bay/San Diego Creek Watershed	The project would correct current deficiencies in the trapping efficiency of the sediment basins in the lower San Diego Creek during larger magnitude storm events resulting in protection of the habitat and navigation uses of Newport Bay and load reductions required by the sediment TMDL. It will also, as a consequence, reduce nutrients (especially phosphorus) which are bound to sediment, and contribute to load reductions required by the nutrient TMDL.	90
County of Orange, Public Facilities and Resources Dept.	Urban Nutrient Source Identification and Best Management Practices Evaluation for the Newport Bay Watershed	379	Newport Bay/San Diego Creek Watershed	The project will assess urban nutrient sources in the Newport Bay watershed that are contributing to excess algae growth and oxygen depletion in the Bay and evaluate Best Management Practices (BMPs) that can be implemented to reduce urban nutrient loads as required by the adopted nutrient TMDL.	90
City of Yucaipa	Wilson and Potato Creek Facility	357	Wilson Creek and Potato Creek	Flood control, groundwater depletion, watershed management, and nonpoint source pollution.	81
County of Orange, Public Facilities and Resources Dept.	Erosion and Sediment Control Enhancement Program for the Newport Bay Watershed	377	Newport Bay/San Diego Creek Watershed	The program will reduce the sediment loading to San Diego Creek and Newport Bay from construction activities, resulting in protection of the habitat and navigation uses of the Bay, and sediment load reductions required by the sediment TMDL. It will also, as a consequence, reduce nutrients (especially phosphorus) which are bound to sediment, and contribute to load reductions required by the nutrient TMDL.	79
City of La Habra	No Deposit No Pollution	324	San Gabriel/South Coast Watershed	Nonpoint source pollution control particularly urban runoff and storm urban runoff.	77
City of Seal Beach	Run-off Treatment Westside Pump Station at 1st Street	189	San Gabriel	Debris and other pollutants associated with urban runoff.	70

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
City of Colton	City-Wide Urban Runoff – Protection of the Santa Ana Watershed by Eliminating a Significant Amount of Suspended Sediments, Debris, Pesticides, & Fertilizers	139	Santa Ana River	The City is desirous of implementing a citywide street sweeping schedule which includes weekly cleaning and requires vehicles to be parked elsewhere or towed away on street sweeping days. The newly formed Stormwater Division of the Utility Department is in need of vehicles and equipment to properly clean the curbs, gutters, and storm drains as well as perform regularly scheduled samples, which are now being conducted by the San Bernardino County Flood Control. Without proper vehicles and equipment, suspended sediments, debris, and urban runoff containing petroleum hydrocarbons, pesticides and fertilizers flow directly into the Lytle Creek and Warm Creek Channel and into the Santa Ana River.	65
City of Colton	Stormwater Conveyance System Improvements- Santa Ana River Watershed Area #2	134	Santa Ana River	The area described below does not have the proper stormwater conveyance system in place causing a vast majority of the suspended sediments, petroleum hydrocarbons, pesticides, fertilizers, and debris to flow directly into the Lytle Creek Channel. The city of Colton Stormwater Program has targeted the reduction of these pollutants by the following methods: 1) Install curbs, gutters, sidewalks, and drive approaches; 2) Increase the street sweeping program to city-wide once a week cleaning; 3) Increase City maintenance of curbs, gutters, and storm drains.	64
City of Colton	Stormwater Conveyance System Improvements- Santa Ana River Watershed Area #1	135	Santa Ana River	The area described below does not have the proper stormwater conveyance system in place causing a vast majority of the suspended sediments, petroleum hydrocarbons, pesticides, fertilizers, and debris to flow directly into the Lytle Creek Channel. The city of Colton Stormwater Program has targeted the reduction of these pollutants by the following methods: 1) Install curbs, gutters, sidewalks, and drive approaches; 2) Increase the street sweeping program to city-wide once a week cleaning; 3) Increase City maintenance of curbs, gutters, and storm drains.	64

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
City of Colton	Stormwater Conveyance System Improvements- Warm Creek (to Santa Ana River) Watershed Area #1	136	Santa Ana River	The area described below does not have the proper stormwater conveyance system in place causing a vast majority of the suspended sediments, petroleum hydrocarbons, pesticides, fertilizers, and debris to flow directly into the Warm Creek Channel. The city of Colton Stormwater Program has targeted the reduction of these pollutants by the following methods: 1) Install curbs, gutters, sidewalks, and drive approaches; 2) Increase the street sweeping program to city-wide once a week cleaning; 3) Increase City maintenance of curbs, gutters, and storm drains.	64
City of Colton	Stormwater Conveyance System Improvements- Santa Ana River Watershed Area #3	137	Santa Ana River	The area described below does not have the proper stormwater conveyance system in place causing a vast majority of the suspended sediments, petroleum hydrocarbons, pesticides, fertilizers, and debris to flow directly into the Lytle Creek Channel. The city of Colton Stormwater Program has targeted the reduction of these pollutants by the following methods: 1) Install curbs, gutters, sidewalks, and drive approaches; 2) Increase the street sweeping program to city-wide once a week cleaning; 3) Increase City maintenance of curbs, gutters, and storm drains.	64
City of Colton	Stormwater Conveyance System Improvements- Lytle Creek (to Santa Ana River) Watershed Area #1	138	Santa Ana River	The area described below does not have the proper stormwater conveyance system in place causing a vast majority of the suspended sediments, petroleum hydrocarbons, pesticides, fertilizers, and debris to flow directly into the Lytle Creek Channel. The city of Colton Stormwater Program has targeted the reduction of these pollutants by the following methods: 1) Install curbs, gutters, sidewalks, and drive approaches; 2) Increase the street sweeping program to city-wide once a week cleaning; 3) Increase City maintenance of curbs, gutters, and storm drains.	64
City of Seal Beach	Run-off Treatment Marina Drive Storm Drain Project	190	San Gabriel	Street flooding and debris and other pollutants associated with urban run-off.	63

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Applicant	Title	Project No.	Waterbody/ Watershed	Problem(s) Being Addressed (Applicant description)	Total Score
City of Seal Beach	Run-off Treatment Eastside Pump Station at Electric Avenue	191	Huntington Harbour (Anaheim Bay)/Seal Beach Watershed	Debris and other pollutants associated with urban run-off.	63
City of Seal Beach	Run-off Treatment Eastside Pump Station at Seal Beach Blvd	195	Huntington Harbour (Anaheim Bay)/Seal Beach Watershed	Debris and other pollutants associated with urban run-off.	61
City of Huntington Beach	Runoff Treatment Project at Nichols/Warner	62	Bolsa Chica Wetlands/Santa Ana Watershed	Trash, debris, heavy metals, nitrates, phosphates, bacteria, and other pollutants associated with urban runoff.	57
City of Huntington Beach	Runoff Treatment Project at Gothard/Heil	66	Huntington Harbour and Bolsa Chica Wetlands/Santa Ana Watershed	Trash, debris, heavy metals, nitrates, phosphates, bacteria, and other pollutants associated with urban runoff.	41